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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHBO, CABA, CANCERLIT, CAPLUS, CEABA-VIB, CEN, CIN, CONFSCI, CROPE, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGB, DRUGBONOGZ, ...' ENTERED AT 15:21:26 ON 09 MAR 2004

68 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF

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component complexes
SZOKA, Francis C., Jr.; Xu, Yuhong; Wang, Jinkang
SZOKA, Francis C., Jr.; Xu, Yuhong; Wang, Jinkang
The Regents of the University of California, USA
U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 92,200, abandoned.

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131:303431 Separation of active complexes such as polynucleotide-transfecting

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Department of Chemistry, University of Illinois, Urbana, IL, 61801, USA
Chemistry--A European Journal ( ***1999*** ), 5(7), 2133-2138
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Ziegler, James; Chang, Richard T.; Wright, David W.
Department of Chemistry and Biochemistry, Duquesne University, Fittsburgh,
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Multiple-Antigenic Peptides of Histidine-Rich Protein II of Plasmodium
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Department of Chemistry, College of Science and Engineering, Aoyama Gakuin

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Sibert, John W.; Sellers, Justin K.
Department of Chemistry, East Carolina University, Greenville, 27858-4353, USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Book of Abstracts, 218th ACS National Meeting,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthesis and coordination chemistry of lipophilic and oligomeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ANSWER 9 OF 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Journal
                                                                                                                                                                                                                                                                                              scaffolds
                                                                                                                                                                                                                                                                                                                              1999:92269 CAPLUS
                                                                                                                                                                                                                                                                                                                                                   ANSWER 10 OF 55 CAPLUS COPYRIGHT 2004 ACS on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1999:541950
                                                                                                                                             English
                                                                                                                                                                Conference; Meeting Abstract
                                                                                                                                                                                   CODEN: 67GHA6
                                                                                                                                                                                                    Washington, D. C.
                                                                                                                                                                                                                                                                            Wyndham, Kevin D.; Feher, Frank J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ***1999*** ), INOR-497 Publisher: American Chemical Society, Washington,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAPIUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAPLUS COPYRIGHT 2004 ACS on STN
                                                                                                                                                                                                                     ), INOR-452 Publisher: American Chemical Society,
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S (peptide or polypeptide) 238227 PEPTIDE 75076 POLYPEPTIDE (2a)

633 DENDRIMER?

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34 (PEPTIDE OR POLYPEPTIDE) (2A) DENDRIMER?

II V Ω 19 bib ab 1-34

E9 2004:63932 BIOSIS ANSWER 1 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

PREV200400065423

activity. Synthetic peptides in the form of dendrimers become resistant to protease

ΑU Luisa; Runci, Ylenia; Pini, Alessand Tagliamonte, Alessandro; Neri, Paolo Bracci, Luisa [Reprint Author]; Falciani, Chiara; Lelli, Barbara; I Runci, Ylenia; Pini, Alessandro; De Montis, Maria Graziella; Barbara; Lozzi

S SO Department of Molecular Biology, Laboratory of Biochemistry and Molecular Biology, University of Siena, Via Fiorentina, 1, 53100, Siena, Italy braccil@unisi.it

Journal of Biological Chemistry, (November 21 2003) Vol. 278, No. 47, pp 46590-46595. print

CODEN: JBCHA3. ISSN: 0021-9258.

임달림 English Article

Entered STN: 28 Jan

In previous papers, we observed that Last Updated on STN: 28 Jan 2004

B mimotopes of the nicotinic receptor ligand site are ***dendrimers*** O.H

strong could not in this case be related to polyvalent interaction, the stability to blood protease activity of monomeric versus tetrabranched dendrimeric mimotope peptides was compared here by incubating three different of dendrimers, the corresponding monomeric peptide mimotopes are not effective in vivo. Because the higher in vivo efficiency of dendrimers retained biological activity and generally showed much greater stability to blood and brain protease activity. Some tetrabranched peptides were also resistant to trypsin and chymotrypsin. Our findings provide new brain membrane extracts. All the tetrabranched neuropeptides fully neurotensin and nociceptin, were synthesized in monomeric and tetrabranched forms and incubated with human plasma and serum and with rat peptides, different bioactive neuropeptides, including enkephalins, spectrometry. Tetrabranch plasma and also in serum. sequences were followed by high pressure liquid chromatography and mass mimotopes with human plasma and serum. Unmodified peptides and cleaved alpha-bungarotoxin. antidotes against the lethality of the nicotinic receptor ligand Tetrabranched peptides were shown to be much more stable in to in serum. To assess the notable stability of multimeric Although their in vitro activity is identical to that

ANSWER 2 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on SIN

insights into the possible therapeutic use of bioactive peptides.

2003:578428 BIOSIS

TI DA IS Low molecular mass PREV200300584062 ***peptide*** ***dendrimers*** that express

ΑU Urbanczyk-Lipkowska, Zofia [Reprint Author] antimicrobial properties. Janiszewska, Jolanta; Swieton, Joanna; Lipkowski, Andrzej W.;

> S Warsaw, Poland ocryst@icho.edu.pl Institute of Organic Chemistry, Polish Academy of Sciences, 01-224,

SO Bioorganic & Medicinal Chemistry Letters, (3 November 2003) Vol. 13, No. CODEN: BMCLE8. ISSN: 0960-894X. pp. 3711-3713. print.

Article

日本日 English

Entered STN: 10 Dec 2003 Last Updated on STN: 10 Dec 2003

Æ peptides in which lysine was a starting and branching element expressed moderate activity against Staphylococcus aureus NCTC 4163, and Escherichia attempt to evaluate their antimicrobial potency. A series of low-generation dendrimeric peptides was synthesized in an coli NCTC 8196. All tested dendrimeric

ANSWER 3 OF 34 BIOS BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

PREV200300563561

TI DN AN

ΑU

[Reprint Author]

Calixarene amino acids; building blocks for calixarene peptides and ***peptide*** - ***dendrimers*** Xu, Heng; Kinsel, Gary R.; Zhang, Jiang; Li, Meiling; Rudkevich, Dmitry M.

S Department of Chemistry and Biochemistry, Univer University USA of Texas at

SO Tetrahedron, rudkevich@uta.edu (28 July 2003) Vol. 59, No. 31, pp. 5837-5848. print

Article ISSN: 0040-4020 (ISSN print).

5 F 3 English

Entered STN: 3 Dec 2003 Last Updated on STN: 3 Dec 2003 Entered STN:

₽B A modular strategy towards receptor macromolecules is presented, which combines synthetically diverse peptide synthesis with highly functional calixarene chemistry. The design and synthesis of calix(4) arene amino calixarene chemistry. The design and synthesis of ${\tt calix(4)}$ arene amino acids ${\tt la-f}$, ${\tt calix-lysines}$, is described, which were used as construction blocks to assemble nanoscale, multivalent entities-calix-peptides 2 and calix- ***peptide*** ***dendrimers***

ANSWER 4 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

PREV200300512818 2003:518609 BIOSIS

I DA ES DELIVERY OF A SENSE OLIGONUCLEOTIDE. USE OF SYNTHETIC ***DENDRIMER*** ***PEPTIDE*** 'S TO MEDIATE THE

ă Rakoczy, P. E. [Reprint Author] Marano, R. J. [Reprint Author]; Wimmer, N.; Kearns, P. S.; Thomas, B. G Toth, I.; Wilson, A. S. [Reprint Author]; Brankov, M. [Reprint Author]; ନ: ;

SO ARVO Annual Meeting Abstract Search and Program Planner, (2003) pp. Abstract No. 1078. Cd-rom. Molecular Ophthalmology, Lions Eye Institute, Nedlands, Australia Vol.

and Ophthalmology. Fort Lauderdale, FL, Meeting Info.: Annual Meeting of the Association for Research in Vision Research in Vision and Ophthalmology USA. May 04-08, 2003. Association

(Meeting)

벍

Conference; Abstract; (Meeting Abstract

멸탕 STN: 5 Nov 2003

of the dendrimer / ODN-1 complexes resulted in a 40% to 60% decrease in the production of both VEGF protein and mRNA in the first 24 hour period. However, after 48 hours, several of the dendrimers were unable to maintain a reduction in the expression of VEGF indicating poor DNA protection qualities. Both the transfecting and protective ability seemed to be related to the length and number of lipidic amino acids [Laa's] associated C14 Laa's and eight free amino groups, achieved the second highest transfection efficacy of 89% and in addition maintained the greatest reduction in VEGP expression for the 24 and 48 hour time periods (48% 50% respectively). In vivo, eyes that were treated with dendrimer 4 showed a 70% lower rate of CNV compared to that of eyes treated with dendrimer minus the oligonucleotide for up to 3 months post injection / The two most effective dendrimer complexes were subsequently injected into the vitreous of rat eyes and later laser photocoagulated to induce choroidal neovascularisation (CNV). The extent of CNV was determined protein and mRNA expression under hypoxic conditions at 24 and 48 hou post transfection using ELISA and RT-PCR respectively, and comparing cligonucleotide (ODN-1) proven to possess an anti vascular endothelial the delivery of oligonucleotides for use in gene therapy. Methods: D407 cells were transfected with nine different dendrimers complexed with an Purpose: To determine if lipid-lysine dendrimers are a viable option for dendrimers can be used for gene delivery both in vivo and in vitro, resulting in a therapeutic outcome and will be a valuable tool in gene using fluorescein angiography. Results: In vitro data indicated that all ODN-1 to the target site was determined by calculating the levels of VEGF growth factor (VEGF) effect. Last Updated on STN: 5 Nov 2003 with each dendrimer. to results obtained using a commercially available transfecting agent. Conclusion: It was found that dendrimer 4, which possessed two We have shown that synthetic lipophilic charged The efficacy of the dendrimers to deliver and 48 hours this

å

AU TI

Membrane permeable alpha, epsilon-

PREV200300376055

Ecm, K. D. [Regrint Author]; Yang, J.-L. [Reprint Author]; Tam,

peptide

dendrimers

J. P.

2003:462648 ANSWER 5 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN BIOSIS

DΤ

Conference; (Meeting) American Peptide Society

ISSN: 0006-3525 (ISSN print).

Conference; Abstract; (Meeting Abstract)

8 5

English

PREV200300462648

TI DN Synthesis of ***peptide*** ***dendrimers*** based on a

ΑU beta-cyclodextrin core with guest binding ability.
Muhanna, Abdullah M. A.; Ortiz-Salmeron, Emilia; Garcia-Fuentes, Luis; [Reprint Author]

S Area de Quimica Organica, Universidad de Almeria, 04120, Almeria, Spain Gimenez-Martinez, Juan J.; Vargas-Berenguel, Antonio

Tetrahedron Letters, (4 August 2003) Vol. 44, No. 32, pp. 6125-6128

So

avargas@ual.es

CODEN: TELEAY. ISSN: 0040-4039.

肾异异 English Article

Entered STN: 8 Oct 2003 Last Updated on STN: 8 Oct 2003 2003

æ The synthesis of three first-order dendrimers based on a beta-cyclodextrin core containing fourteen Val. Phe and Val-Phe residues is described. The guest binding ability of the tetradecavalent peptidyl beta-cyclodextrin derivative has been tested by calorimetric titration and the thermodynamic parameters for the complex formation with adamantanecarboxylic acid were

2003:376055 BIOSIS ANSWER 6 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

A 59

SO S S ΑU ဌ II DA L9 **₽**₽ Department of Microbiology and Immunology, Vanderbilt University, Nashville, TN, 3732, USA American Peptide Society. ISSN: 0006-3525 (ISSN print). Meeting Info.: 18th American Peptide Symposium on Peptide Revolution: Genomics, Proteomics and Therapeutics. Boston, MA, USA. July 19-23, 2003 Meeting Info.: 18th American Peptide Symposium on Genomics, Proteomics and Therapeutics. Boston, MA, A novel design of antimicrobials. Conference; Abstract; (Meeting Abstract) Conference; Biopolymers, (2003) Nashville, TN, 37232, Department of Microbiology and Immunology, Vanderbilt University. Biopolymers, (2003) Vol. 71, No. 3, Yu, Q. [Reprint Author]; Wu, C. [Reprint Author]; Yang, J. L. [Reprint Author]; Tam, J. P. [Reprint Author] Membrane-active delta- and epsilon- ***peptide*** PREV200300365340 2003:365340 ANSWER 7 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN Last Updated on STN: 13 Aug 2003 Entered STN: 13 Aug 2003 Conference; [Reprint Author] (Meeting Poster) (Meeting) BIOSIS Vol. 71, No. 3, pp. 380. print USA pp. 323. print Peptide Revolution: USA. July 19-23, 2003 ***decdrimers***

Falciani, C. [Reprint Author]; Lozzi, L. protease activity. Synthetic peptides in the form of dendrimers can become resistant to PREV200300365206 2003:365206 ANSWER 8 OF 34 BIOSIS Last Updated on STN: 6 Aug 2003 Entered STN: 6 Aug 2003 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN [Reprint Author]; Lelli, B.

AN DN TI

S a [Reprint Author]; Runci, Y. [Reprint Author]; Pini, A. Neri, P. [Reprint Author]; Bracci, L. [Reprint Author] [Reprint Author];

Department of Molecular Biology, University of Siena, Via Fiorentina, 1,

9 American Peptide Society Meeting Info.: 18th American Peptide Symposium on Peptide Revolution: Genomics, Proteomics and Therapeutics. Boston, MA, USA. July 19-23, 2003 Biopolymers, (2003) Vol. 71, No. 3. 53100, Siena, Italy pp. 293. print

ISSN: 0006-3525 (ISSN print). (Meeting)

English Conference; Abstract; (Meeting Abstract)

STN: 6 Aug 2002

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Last Updated on STN: 6 Aug 2003

- AU DN AU AU ANSWER 9 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN 2003:342036 BIOSIS
- Harm-Anton; Muellen, Klaus [Reprint Author] Max Planck Institute for Polymer Research, Ackermannweg 10, D-55128 Herrmann, Andreas; Mihov, Gueorgui; ***Peptide*** -functionalized polyphenylene Vandermeulen, Guido W. M.; Klok ***dendrimers***
- S muellen@mpip-mainz.mpg.de
- BB English

SO

Tetrahedron, (26 May 2003) Vol. 59, ISSN: 0040-4020 (ISSN print).

No. 22,

pp. 3925-3935. print

- Jul
- Last Updated on STN: 23 Jul 2003
- are functionalized with up to 16 lysine residues or substituted with short peptide sequences composed of 5 lysine or glutamic acid repeats and a C-ox N-terminal cysteine residue. Polyphenylene dendrimers were prepared substituted cyclopentadienones in the last Diels-Alder addition reaction. Alternatively, peptide sequences were attached via a chemoselective reaction, which involved the addition of the sulfhydryl group of a surface of the dendrimer.
 functionalized ***dendri cysteine residue of an oligopeptide to a maleimide moiety present on the surface of the dendrimer. These amino acid and ***peptide*** This contribution describes the synthesis of polyphenylene dendrimers that preparation of novel supramolecular architectures via layer-by-layer to study DNA complexation and condensation or as building blocks for the introduced on the periphery of the dendrimers by using amino acid from cyclopentadienone building blocks. Single amino acids could be via a sequence of Diels-Alder cycloaddition and ***dendrimers*** may be of interest as model compounds deprotection reactions
- ANSWER 10 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN 2003:116029 BIOSIS
- THE AN PREV200300116029
- cyclic disulfide epitopes of foot-and-mouth disease virus Synthetic approaches to multivalent lipopeptide dendrimers containing
- S ΑU Department of Experimental and Health Sciences, Pompeu Fabra University. De Oliveira, Eliandre; Villen, Judit; Giralt, Ernest; Andreu, David [Reprint Author]
- david.andreu@cexs.upf.es Doctor Aiguader 80, 08003, Barcelona, Spain

Bioconjugate Chemistry, (January-February 2003) Vol. 14, No. 1,

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ISSN: 1043-1802 (ISSN print)

SS

- 필디디
 - English
- Entered STN: 26 Feb 2003

dendrimer

undertaken. Since standard chemoselective ligation procedures involving thioether formation are inadvisable in the presence of a preformed disulfide, conjugation through a peptide bond between the lipidated Last Updated on STN: 26 Feb 2003

The synthesis of a multiantigenic ***peptide*** ***dendriming incorporating four copies of a cyclic disuffide epitope has been scaffold and a suitably protected version of the cyclic

> deprotection step in anhydrous HF yields a peptide construction containing a maximum of three copies of the cyclic disulfide epitope, the lower substitution being attributable to steric constraints. This immunogen has been successfully used in an experimental vaccination trial against foot-and-mouth disease virus. disulfide has been used instead. Several synthetic approaches to the partially protected cyclic disulfide peptide have been explored. The momentum partially protected version of the peptide cysteine protecting groups. Peptide-resin cleavage and cysteine deprotection/oxidation are performed simultaneously by base-promoted by Boc solid phase synthesis, using fluorenyl-based anchorings and sufficient amounts by this procedure and subsequently incorporated to the elimination. lipidated lysine core by peptide bond formation in solution. The cyclic disulfide epitope is readily obtained in A final acid most

- ANSWER 11 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- CS AU DN AN L9 BIOSIS
 - PREV200300058428
 - Biological applications of dendrimers.
- Cloniger, Mary J. [Reprint Author] Department of Chemistry and Biochemistry, Montana State University, 108 Gaines Hall, Bozeman, 59717, USA
- Current Opinion in Chemical Biology, mcloninger@chemistry.montana.edu 742-748. print. (December 2002) Vol. 6, No. 6, pp.
- ISSN: 1367-5931 (ISSN print)
- Article
- General Review; (Literature Review)
- 8 5 English
- Last Updated Entered SIN: g 22 2 Jan 2003 n STN: 22 J Jan 2003
- TI DN AN ANSWER 12 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 - 2002:557320 SISOIE
- PREV200200557320 ***peptide*** ***dendrimers***
- AU

with antimicrobial

- properties.
- Janiszewska, J. [Reprint author]; Ostrowska, A. [Reprin Lipkowski, A. W. [Reprint author]; Urbanczyk-Lipkowska, [Reprint author]; z
- Journal of Peptide Science, (2002) Vol. 8, No. Industrial Chemistry Research Institute, Warsaw, Poland Supplement, pp. S184.

S S

- 31-September 06, 2002. Meeting Info.: 27th European Peptide Symposium. Sorrento, Italy. August print
- ISSN: 1075-2617.
- рŢ Conference; Abstract; (Meeting Abstract (Meeting)
- Conference; (Meeting Poster)
- Entered STN: 30 Oct 2002 English
- 담당 Updated on STN: 30 Oct 2002
- ANSWER 13 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. g STN
- 2002:546003 SISOIE
- IN AN Design and synthesis of dendrimers based on poly(Pro) sequences Exploration of their use as drug-delivery agents. PREV200200546003

- SO ΑU Royo, M. [Reprint author]; Sanclimens, G. [Reprint author]; [Reprint author]; Pons, M. [Reprint author]; Albericio, F. Dpt. Quimica Organica, author]; Giralt, E. [Reprint author] imica Organica, Universitat de Barcelona, Barcelona, Spain of Peptide Science, (2002) Vol. 8, No. Supplement, pp. S62. print. [Reprint author]; Crespo, [Reprint ŗ
- 31-September 06, 2002. Meeting Info.: 27th European Peptide Symposium. Sorrento, Italy. August
- 밁 Conference; (Meeting)

ISSN: 1075-2617

- Conference; Abstract; (Meeting Abstract)
- 담당 English
- Entered STN: 23 Oct 2002 Last Updated on STN: 23 Oct 2002
- AN DN TI ANSWER 14 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on SIN
 - 2002:535732 BIOSIS
- PREV200200535732
- Syntheses of polycationic ***dendrimers***

 peptide core for complexation and t on lipophilic
- AU P.; Toth, Istvan (Reprint author) winner
- S School of Pharmacy, University of Queensland, Steele Building, Saint Lucia, QLD, 4072, Australia
- SO i.toth@pharmacy.uq.edu.au Bioorganic and Medicinal Chemistry Letters, (16 September, 2002) Vol. 12. No. 18, pp. 2635-2637. print. CODEN: BMCLE8. ISSN: 0960-894X.
- Article
- 밥불다 English

- Entered STN: 16 Oct 2002
 Last Updated on STN: 16 Oct 2002
 Synthesis of novel polycationic lipophilic peptide core(s) was accomplished and these agents successfully transfected human retinal pigment epithelium cells with ODNI upon complexation with the growth factor) in comparison to the transfection agent cytofectin GSVIM. decreased production of the protein hVEGF (human vascular endothelia) oligonucleotide. The level of transfection was indirectly measured by the
- ANSWER 15 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- 2002:500030 BIOSIS
- PREV200200500030
- ALL DA FR ***Peptide*** ***dendrimers*** based on polyproline helices
- Crespo, Laia; Sanclimens, Gloria; Montaner, Beatriz; Perez-Tomas, Ricard Royo, Miriam [Reprint author]; Pons, Miquel [Reprint author]; Albericio, Fernando [Reprint author]; Giralt, Ernest [Reprint author] Departament de Quimica Organica, Universitat de Barcelona, Marti i Ricardo;
- S
- Franques 1, 08028, Barcelona, Spain
- SO Journal of the American Chemical Society, (July 31, 2002) Vol. 124, No. egiralt@qo.ub.es pp. 8876-8883. print.
- CODEN: JACSAT. ISSN: 0002-7863.
- 립통법
- Entered STN: 25 Sep 2002

 Last Updated on STN: 25 Sep 2002

 We present a new family of ***peptide*** ***dendrimers***
 polyproline helices and cis-4-amino-L-proline as a branching unit. ***dendrimers*** based on

and in the resulting dendrimers. Both linear and dendritic polyprolines were found to be actively internalized by rat kidney cells. Preliminary results show that the antibiotic ciprofloxacin form complexes with approach. The conformational transition between polyproline type I helix and polyproline type II helix was observed by circular dichroism in branched polyproline building blocks with more than 14 proline residues Dendrimers were synthesized by a convergent solid-phase peptide synthesis branched polyproline chains in 99.5% propanol.

- ANSWER 16 OF 34 BIOSIS BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- TI DA E9 PREV200100538673
- Synthesis, isolation and characterization of Plasmodium falciparum antigenic tetrabranched ***peptide*** ***dendrimers*** obta thiazolidine linkages. obtained by
- Ramirez, L.; Pinto, M.; Trujillo, M.; Guzman, F.; Patarroyo, M. [Reprint author]

Chaves, F. [Reprint author]; Calvo, J. C.; Carvajal, C.; Rivera,

franchav@hotmail.com de Colombia, Carrera 10 No. 1-99 sur, Bogota, Colombia Instituto de Immunologia, Hospital San Juan de Dios, Universidad Nacional

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SO

ΑU

- Journal of Peptide Research, (October, 2001) Vol. 58, No. 4, pp. 307-316
- ISSN: 1397-002X.
- 8 E 3
 - English
- Entered STN: 21 Nov 2001
- synthesized by direct synthesis. All reactions were monitored by SEC-HPIC and SDS-PAGE. Dendrimer molecular mass obtained was confirmed by MS MALDI-TOF. Dendrimer purification was first carried out by concentrating crude reaction products with CP-5000 centricons and (using SEC-HPIC) pure terramers were then obtained. A 20-residue 9376 immunogenic sequence, from Plasmodium falciparum apical merozoite antigen protein (AMA-1), was used to study the best alternative for chemical ligation. It was observed that of dendritic cells, were thus obtained. The antigen-core ligation alternatives, studied by indirect synthesis, were the formation of oxime, hydrazone and thiazolidine linkages, making use of the reaction between a weak base (acting as nucleophile) and an alkyl aldehyde. The other polypeptidic macromolecules which could then be used as vaccines. The were based on the ligation reaction between an unprotected immunogenic peptide and an unprotected multifunctional core ***peptide***; Last Updated on STN: 25 Feb 2002 Different chemical alternatives were evaluated for obtaining immunogenic proving the technique's versatility. The 9376 peptide disulfide bound polymer and SPf-66 (as well as their tetrameric thiazolidine dendrimers) than the others. A tetramer has been simultaneously synthesized via thiazolidine with the SPf-66 antimalarial vaccine 45-residue monomer. alternative was the formation of a thioether linkage between a sulfydryl and an alkyl halide. Finally, a multiple antigen peptide (MAP) was polyantigens, designated falciparum proteins as well as disulfide-bound polymers. greater but were also sustained overtime. Western blot for pre-immune and were inoculated in rabbits to evaluate their antibody response. It was observed that titers for tetrameric thiazolidine dendrimers were not just immune sera showed that dendrimer sera recognized specific Plasmodium thiazolidine formation proceeded with greater yield and in less time ***dendrimers*** because their form resembles

AN DN AN AU CS PREV200100534631 2001:534631 BIOSIS ANSWER 17 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

Carbohydrate-based templates for synthetic vaccines and drug delivery. McGeary, Ross P.; Jablonkai, Istvan; Toth, Istvan [Reprint author] school of Pharmacy, The University of Queensland, Steele Building, Brisbane, Qld, 4072, Australia

i.toth@pharmacy.uq.edu.au
Tetrahedron, (8 October, 3 2001) Vol. 57, No. 41, pp. 8733-8742. print

CODEN: TETRAB. ISSN: 0040-4020.

SO

Article

ED DT English

Last Updated on STN: 23 Feb 2002 Entered STN: 14 Nov 2001

acid functionalities at the anomeric position and bearing four arms with phthaloyl- or BOC-protected terminal amino groups. These molecules were suitable for use in solid-phase peptide synthesis and for the preparation Methyl tetra-0-allyl, and tetra-0-(2-(tetrahydro-2H-pyranyl)oxy.-3-oxapentyl glucosides, and tetra-0-(cyanoethyl)galactosyl azide were converted into derivatives containing linkers with terminal carboxylic of dendrimers containing multiple copies of peptides.

DN PN 2001:364109 BIOSIS ANSWER 18 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

PREV200100364109

Photoinduced hydrogen evolution with and hydrogenase. ***peptide*** ***dendrimer***

ΑU -multi-Zn(II)-porphyrin, viologen, and hydrogenase.
Sakamoto, Muneyoshi; Kamachi, Toshiaki; Okura, Ichiro; Ueno, Akihiko; Mihara, Hisakazu [Reprint author]
Graduate School of Bioscience and Biotechnology, Tokyo Institute of

S Technology, Nagatsuta, Yokohama, 226-8501, Japān hmihara@bio.titech.ac.jp

SO Biopolymers, (August, 2001) Vol. 59, No. 2, pp. 103-109. print. CODEN: BIPMAA. ISSN: 0006-3525.

집통립 Article

English

Entered SIN: 2 Aug 2001 on STN: 19 Feb 2002

Last Updated on STN: 19 Feb 2002

To construct an artificial photosynthetic system, multi-Zn(II)

so that hydrogen was evolved effectively by the dendrimer architecture, for the first time. The hydrogen evolution activity was correlated to the photoreduction ability of viologen by the Zn-porphyrin. ***reptide***

dendrimers Additionally, using positively charged system (electron donor, photosensitizer, electron carrier, and catalyst), mesoporphyrins in ***peptide*** ***dendrimers*** were equipped a a photosensitizer of photoinduced hydrogen evolution in a four-component were equipped as

dendriners** Additionally, Using positively charged methyl-viologen as an electron carrier, the photoinduced hydrogen evolution function with the positively charged ***peptide

identical between the positively and the negatively charged dendrimers. These results demonstrated that the dynamic interaction between the positive dendrimer and methyl-viologen was preferable for the ***peptide***

dendrimer, despite that the positive dendrimer
did not strongly bind the positively charged methyl-viologen with the
electrostatic interaction. By contrast, when zwitterionic propylviologen photoreduction and hydrogen evolution, and that the three-dimensional sulfonate was used, photoreduction and hydrogen evolution properties were was superior to that with the negatively charged

> assembly of Zn(II)-mesoporphyrins using the ***peptide***
>
> ***dendrimers*** was effective as a photosensitizer in the artificial ***peptide***

ANSWER 19 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI NA ES PREV200100230753 BIOSIS

Use of orthogonal ligation methods for the synthesis of a hetero ***peptide*** ***dendrimer*** .

SO Liu, Chuan-Fa (Reprint author); Rao, Chang; Tam, Amgen Inc., 3200 Walnut St., Boulder, CO, 80301,

Fields, Gregg B.; Tam, James P.; Barany, George. (2000) pp. 118-119 USA

Kluwer Academic Publishers, 101 Phillip Drive, Assinippi Park, Norwell, Publisher: Kluwer Academic Publishers, 3300 AA, Dordrecht, Netherlands; Peptides for the new millennium. print. 02061, USA.

Meeting Info.: 16th American Peptide Symposium. Minneapolis, MI, USA. June 26-July 01, 1999. American Peptide Society.

ISBN: 0-7923-6445-7 (cloth).

Book; (Book Chapter) Conference; (Meeting)

DE.

Conference; (Meeting Paper)

85 English
Entered STN: 16 May 2001

ANSWER 20 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on Last Updated on STN: 18 Feb 2002

I DN AN PREV200000397734

2000:397734 BIOSIS

Design and synthesis of AB3-type (A = 1,3,5-benzenetricarbonyl unit; B = Glu dioMe or Glu7 Octa OMe) ***peptide*** ***dendrimers*** :

S ΑU Discovery Laboratory, Indian Institute of Chemical Technology, Hyderabad, Ranganathan, Darshan [Reprint author]; Kurur, Sunita; Gilardi, Richard; Karle, Isabella L.

Crystal structure of the first generation.

500 007, India Vol. 54, No. 4, pp. 289-295. print

SO CODEN: BIPMAA. (October 5, 2000) A. ISSN: 0006-3525

집통점 Article

English

Entered STN: 20 Sep 2000 Last Updated on STN: 8 Jan 2002

The first generation molecule of glutamic acid-based dendrons on a 1,3,5-benzenetricarbonyl core leads to a cylindrical assembly as demonstrated by single crystal x-ray diffraction. The benzene pi-pi stack (A) is stabilized by vertical NH cntdotcntdotcntdot OdbdC hydrogen bonding with each subunit participating in three intermolecular hydrogen bonds

ANSWER 21 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on NIS

by three-fold rotation symmetry.

AU DN AU AU 2000:278879 BIOSIS

Separation of active complexes.

Szoka, Francis C. [Inventor, Reprint author]; Xu, Yuhong [Inventor]; Wang

Jinkang [Inventor]

CA, USA

ASSIGNEE: The Regents of the University of California, Oakland, CA, USA US 5972600 October 26, 1999

SO Official Gazette of the United States Patent and Trademark Office Patents (Oct. 26, 1999) Vol. 1227, No. 4. e-file. CODEN: OGUPE7. ISSN: 0098-1133.

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Entered STN:

6 Jul 2000 on STN: 7 Jan 2002

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The invention separates defined, active complexes by a characteristic from Defined, active complexes that share a particular physicochemical characteristic such as density, surface charge or particle size are separated from complexes formed by the association of a polymucleotide with a transfecting component that increases transfection activity, such embodiment, polynucleotide-transfecting component complexes are ultracentrifuged to resolve one or more bands corresponding to complexes having a specific polynucleotide-transfecting component interaction. as a lipid, cationic lipid, liposome,
 peptide , ***dendrimer*** Polymurcleotide complexes having a cationic liposome transfecting component resolve into two primary bands corresponding to complexes formed either complexes are resolved using cross-flow electrophoresis to identify under excess lipid conditions or under excess polynucleotide conditions complexes having specific interactions and to separate them from excess In an alternate embodiment, polynucleotide-transfecting component ***peptide*** ***peptide*** , cationic or polycation. In a preferred

2000:189843 BIOSIS ANSWER 22 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on

initial components

PREV200000189843

TR N E9 Oral uptake and translocation of a polylysine dendrimer with a lipid surface

SS Florence, A. T. [Reprint author]; Sakthivel, T.; Toth, I. Centre for Drug Delivery Research, School of Pharmacy, University of London, 29139, Brunswick Square, London, WCIN 1AX, UK

SO Journal of Controlled Release, (March 1, 2000) Vol. 65, No. 1-2, pp.

CODEN: JCREEC. ISSN: 0168-3659. 253-259. print.

胃髮胃 English Article

Entered STN: 17 May 2000 Last Updated on STN: 4 Jan 2002

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reached the liver, 0.1% the spleen and 0.5% the kidneys. In a parallel study with a higher dose of 28 mg/kg, approximately 1% was absorbed via Peyer's patches of the small intestine at 3 h. The maximum uptake by small intestine enterocytes was 4% of the dose after 3 h. After 12 h, 0 administration to female Sprague-Dawley rats (180 g, 9 weeks old). It was synthesised as the tritiated derivative (all acetyl portions) and had a molecular weight of 6300 and log P (octanol/water) of 1.24. First a single oral dose 14 mg/kg was administered by gavage. Maximum levels of laboratories. One of the series, a fourth generation dendrimer with a diameter of 2.5 nm was chosen to study its absorption after oral A series of lipidic ***peptide*** ***dendrimers*** base with 16 surface alkyl (Cl2) chains has been synthesised in our dendrimer observed were 15% in the small intestine, 5% in the large intestine and 3% in the blood at 6 h after administration, while 1.5% and 4% dendrimer was measured respectively in Peyer's patches and After 12 h, 0.3 based on lysine

> target tissue weight, the total percentage of the dose absorbed through Peyer's patches was greater than through normal enterocytes in the small intestine after 3 and 24 h, but the opposite was true in the large intestine. These levels of uptake and translocation are lower than those exhibited by polystyrene particles in the range from 50 to 3000 mm. This might suggest that there is an optimum size for nanoparticulate uptake by the gut. enterocytes of the large intestine. When calculated on the basis of

ANSWER 23 2000:8191 OF 34 BIOSIS BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on SIN

I DN AS PREV200000008191

A direct method for the formation of ***dendrimers*** . ***peptide*** and carbohydrate

S ΑU School Mitchell, Jeffrey P. [Reprint author]; Roberts, Kade D. [Reprint author]; Langley, Jane; Koentgen, Frank; Lambert, John N. [Reprint author] School of Chemistry, University of Melbourne, Grattan Street, Parkville,

Bioorganic and Medicinal Chemistry Letters, (Oct. 4, 1999) Vol. 9, No. 19 2785-2788.

85-2788. print. BMCLE8. ISSN: 0960-894X.

SO

VIC, 3052, Australia

853 Article

Entered STN: English

Entered STN: 23 Dec 1999 Last Updated on STN: 31 Dec 2001

Two new methods for the modification of PAMAM dendrimers have been developed which allow the covergent synthesis of either peptide or carbohydrate-bearing dendrimer molecules. Both methods involve condensation between hydroxylamino nucleophiles and appropriate carbonyl-bearing reaction partners.

ANSWER 24 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

1999:337060 SISOIE

H NA F PREV199900337060

Distribution of a lipidic 2.5 nm diameter dendrimer carrier after oral administration

Ą Sakthivel, Thiagarajan; Toth, Istvan; Florence, Alexander T.

S Centre for Drug Delivery Research, School of Pharmacy, University of London, 29/39 Brunswick Square, London, WClN LAX, UK

SO International Journal of Fharmaceutics (Amsterdam), (June 10, 1999) Vol. 183, No. 1, pp. 51-55. print.

183, No. 1, pp. 51-55. print. CODEN: IJPHDE. ISSN: 0378-5173

哥長哥 Article

Entered STN: English 24 Aug 1999

Last Updated on STN: 24 Aug 1999

The biodistribution of a lipidic ***peptide***

been studied after oral administration to female Sprague-Dawley rats (180 g, 9 weeks old). Uptake by gut epithelial tissue of the radiolabelled dendrimer molecule (mol. wt. 6300; diameter 2.5 nm; log P = 1.24) was studied in rats after a single oral dose by gavage (14 mg/kg). The maximum levels of dendrimer observed were 3% (blood), 1.53 (liver), 0.1% (spleen), 0.5% (kidneys), 15% (small intestine) and 5% (large intestine). Approximately 6% of a single administered dose (28 mg/kg) was recovered from the entire gastrointestinal tract while 1% was absorbed via the small intestine lymphoid tissue after 3 h; after 12 h, 0.1% was detected. The

maximum uptake by the non-lymphoid small intestine was 4% of the dose after 3 h. After 12 h, 0.3 and 4% dendrimer was measured in the lymphoid large intestine and the non-lymphoid large intestine, respectively. The

ANSWER 25 OF 34 BI01999:337059 BIOSIS total percentage of the administered dose absorbed through the lymphoid tissue of the small intestine with respect to organ weight after 3 and 24 h. BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. g STN

PREV199900337059

ΑU AN DN TI Inverse toroidal vesicles: Precursors of tubules in sorbitan monostearate Sudaxshina; Gregoriadis, Gregory; Florence, Alexander T. [Reprint

S Centre for Drug Delivery Research, School of Pharmacy, University of London, 29-39 Brunswick Square, London, WClN 1AX, UK

os 183, No. 1, pp. 47-49. print International Journal of Pharmaceutics (Amsterdam), (June 10, 1999) Vol.

CODEN: IJPHDE. ISSN: 0378-5173.

日本日 English Article

Entered STN: 24 Aug 1999 Last Updated on STN: 24 Aug 1999

Sorbitan monostearate organogels are opaque, thermoreversible semi-solids whose microstructure consists of surfactant tubules dispersed in the organic continuous phase. Inverse toroidal vesicles are the precursors of shape and their inverse nature. They are rather short-lived structures on further cooling of the sol phase, tubules form in the organic medium it is speculated that the toroids elongate into tubular shapes or split hot-stage light microscopy. At the gelation temperature, inverse toroidal vesicular structures were seen to grow in the organic phase. These toroids are thought to be analogous to other well-known vesicles, liposomes and nissomes, except for their toroidal (rather than spherical) organic continuous phase. the surfactant tubules. sol phase of sorbitan monostearate in isopropyl myristate was cooled using into rod-shaped segments. surfactant tubules. The gelation process was observed as an isotropic They are rather short-lived structures: mase, tubules form in the organic medium:

CS AN DIN ANSWER 26 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN 1999:150509 BIOSIS

PREV199900150509

Centre Drug Delivery Res., & Square, London WCIN lAX, UK Oral absorption of a novel dendrimer carrier.
Sakthivel, T. [Reprint author]; Florence, A. T. [Reprint author]; Toth, Sch. Pharmacy, Univ. London 29/39,

European Journal of Pharmaceutical Sciences, (Aug., 1998) Vol. 6, No.

Meeting Info.: Fourth European Congress of Pharmaceutical Sciences. Milan, Italy. September 11-13, 1998. European Federation for Pharmaceutical SUPPL. 1, pp. 873. print.

ISSN: 0928-0987

Conference; (Meeting)

Conference; Abstract; (Meeting Abstract) (Meeting Poster

English

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Entered STN: 13 Apr 1999 Last Updated on STN: 13 Apr 1999

AN DN TI 9 ₽ Ŋ Applications of dendrimers in bio-organic chemistry.
Kim, Yoonkyung; Zimmerman, Steven C. [Reprint author]
Dep. Chem., 600 S. Matthews Avenue, Univ. Illinois, Urban
Current Opinion in Chemical Biology, (Dec., 1998) Vol. 2, Article 733-742. print. Last Updated Entered STN: 4 Mar 1999 English General Review; (Literature Review) ISSN: 1367-5931. 8 STN: Mar 1999 Urbana, No. 6, IL 61801, . gq USA

ANSWER 27 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

BIOSIS

ANSWER 28 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

Average and maximum charge states of arginine-containing

PREV199800505370

CS -like ***peptide*** ions formed by electrospray ionization.
Schulze, Christian [Reprint author]; Heukeshoven, Jochen
Cent. Mol. Neurobiol., Univ. Hamburg, Martinstr. 52, D-20246 Hamburg. Germany

SO European Mass Spectrometry, (1998) Vol. 4, No. 2, pp. 133-139. print ISSN: 1356-1049

티디 English

Entered STN:

their four peptide chains have been investigated. Stepwise addition of arginine residues leads to increased charging. It has been found that taverage charge state is linearly correlated to the number of arginine residues which allows the conclusion that the four peptide chains are its alpha-amino group and its side-chain guanidino group. The Coulomb repulsion is presumably reduced through intramolecular charge solvation in the N-terminal part of the peptide chains. each added arginine residue by roughly 03 units towards lower π/z rate Modification of the alpha-amino groups by acetylation reduces zav as dendrimer-like multiple antigenic peptides (MAPs) which differ in structure only in the presence of an arginine residue at the N-termini of suggests that the N-terminal arginine is to some extent protonated on both compared with the corresponding non-modified model peptides. effectively independent. The maximum and average charge states formed by electrospray ionization of Last Updated on STN: 18 Dec 1998 The average charge state zav is shifted with m/z ratios. that the

PREV199800424071 ANSWER 29 OF 34 BIOSIS 1998:424071 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on SIN

Ligation of laminin fragments onto a PEG dendrimer.

AU DN CS SO SO

Huang, Lei [Reprint author]; Wang, De-Xin [Reprint author]; Li, Shi-Jun Inst. Materia Med., Chinese Acad. Med. Sci., Beijing 100050, China Xu, X.-J. [Editor]; Ye, Y.-H. [Editor]; Tam, J. P. [Editor]. (1998) pp.

Massachusetts 02061, USA. Meeting Info.: 1996 Chinese Peptide Symposium. Chengdu, China. July 21-25, Netherlands; Kluwer Academic Publishers, 101 Phillip Drive, Norwell. 29-30. Peptides: Biology and chemistry. print. Publisher: Kluwer Academic Publishers, PO Box 989, 3300 AZ Dordrecht,

ΑU TI DN TI 당동 ΡŢ Centre Drug Delivery Res., Sch. Pharmacy, Univ. London, London, UK Pharmaceutical Research (New York), (Nov., 1997) Vol. 14, No. 11 SI Sakthivel, English Entered STN: 2 Oct 1998 author]; Toth, Oral uptake of a 2.5 nm diameter lipidic PREV199800105842 ANSWER 30 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. Last Updated on STN: 5 Nov 1998 Conference; (Meeting Paper) Book; (Book Chapter) ISBN: 0-7923-4963-6. ***dendrimer*** by lymphoid and non-lymphoid tissues.
kthivel, Thiagarajan [Reprint author]; Florence, Alexander T. [Reprint BIOSIS Istvan ***peptide*** SUPPL., 9 STN

ŭ Conference; Abstract; (Meeting Abstract) Conference; (Meeting) American Association of Pharmaceutical Scientists CODEN: PHREEB. ISSN: 0724-8741.

Pharmaceutical Scientists. Boston,

pp. 8663. print.

Meeting Info.: Annual Meeting of the American Association of

Massachusetts, USA. November 2-6, 1997

日長 English Conference; (Meeting Poster)

Entered STN: 3 Mar 1998

Last Updated on SIN: 3 Mar 1998

ANSWER 31 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on

II DA 19 Self-assembly of cyclic peptides on a dendrimer: Multiple cyclic antigen PREV199799449925 BIOSIS

CS A Dep. Microbiol Immunology, Vanderbilt Univ., MCN A5119, Nashville, TN Spetzler, Jane C.; Tam, James P. [Reprint author]

peptides.

SO Peptide Research, (1996) Vol. 9, No. 6, pp. 290-296 CODEN: PEREEO. ISSN: 1040-5704

답불다 English Article

between an N-terminal Cys and an aldehyde attached to the side chain of Lys to form a loop linked by a thiazolidine ring. The MCAP precursor contains an amino Cys(St-Bu) and an internal Lys (Ser). A branched, multiple closed-chain architectures. We describe an approach for their stepwise, solid-phase synthesis that permits a self-assembly of cyclization reactions of a McAP with four copies of cyclic peptides in Entered STN: 15 Apr 1997 Last Updated on STN: 15 Apr 1997 Multiple cyclic antigen petitides (McAPs) are dendrimers that have to effect the concomitant thiazolidine formation with the glyoxyl moiety trialkylphosphine is used to deblock Cys(St-Bu) on the amino terminus and method favoring intrachain cyclization based on ring-chain tautomerism solution after their cleavage from the resin with all protecting groups removed. The conceptual framework of our approach is the development of a

> liberated cyclic peptide monomer with synthetic standards support the theory that intrachain cyclization is the predominant cyclization pathway and validate the usefulness of this ring-chain tautomerization concept in the self-assembly of cyclic peptides on a branched ***peptide*** a cleavage site as Asp-Pro is incorporated at the COOH terminus of each obtained from an oxidative conversion of the Ser on the Lys side chain. Two McAPs, each containing cyclic peptides of 17 and 24 amino acid residues, have been prepared. To evaluate intrachain cyclization yields, cyclization by treatment with formic acid at an elevated temperature monomeric loop and subsequently released after completion of the Reversed-phase high performance liquid chromatography analyses of the ***dendrimer***

TI NA ES ANSWER 32 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

PREV199698780945 1996:224816 BIOSIS

Evaluation of adjuvants that enhance the effectiveness of antisense oligodeoxynucleotides.

Hughes, J. A. [Reprint author]; Aronsohn, A. I.; Avrutskaya, A. V.;

ΑU SS Juliano, R. L.

Sch. Pharm., Dep. Pharmaceutics, Univ. Florida, Gainesville, FL 32610, USA Pharmaceutical Research (New York), (1996) Vol. 13, No. 3, pp. 404-410. CODEN: PHREEB. ISSN: 0724-8741.

BAB

English

Entered STN: 8 May 1996

disrupting adjuvants were screened, including: (a) fusogenic peptides; (b) a pH sensitive polymer; (c) polymeric dendrimers, (d) cationic liposomes and (e) a pH sensitive surfactant N-dodecyl 2-indazole-propionate (DIP). ODN effects were evaluated at the procein level by quantitating levels of CAT. Results: The use of AS ODN in co-incubation with the GALA peptide, expression. Only modest effects were observed with the other adjuvants. DIP did not increase ODN activity by itself; however, when the liposomal cell line expressing the enzyme chloramphenicol acetyitransferase (CAT) under the control of an inducible promoter. Several potential endosomal Methods: In this report, we evaluated compounds for their potential to enhance the effects of phosphorothioate ODNs. The test system used a CHO enhance endosome to cytosol transfer may be vital in AS ODN therapeutics. from endosomes to cytosol seems to be an important determinant of ODN effects. Consequently, the development of compounds (adjuvants) that deoxyoligonucleotides (ODNs) is inefficient transport to their sites of action in the cytoplasm and in the nucleus. The extent of ODN transfer Last Updated on STN: 8 May 1996
Purpose: A factor limiting the effectiveness of antisense (AS) Conclusions: We found the fusogenic form was used a significant reduction (48%) in CAT activity was seen. reduction in CAT expression. The mismatched ODN had no effect on CAT cationic liposomes or 5th generation dendrimers resulted in a 35-40% ***peptide***

dendrimers , as well as the liposomal form of DIP, could significantly enhance the effects of ODNs.

ANSWER 33 OF 34 BIOSIS BIOSIS COFYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI DN AN

Unprotected peptides as building blocks for branched peptides and ***peptide*** ***dendrimers*** .

ΑU Spetzler, Jane C.; Tam, James P. [Reprint author]

- S Dep. Microbiol. Immunol., A5115 MCN, Vanderbilt Univ., Nashville, TN 37232, USA
- SO 1, pp. 78-85. CODEN: IJPPC3. ISSN: 0367-8377. International Journal of Peptide and Protein Research, (1995) Vol. 45, No.
- 日日日 Article
- English
- ž
- attached to the N-terminal of an unprotected peptide as nucleophile to react with the alkyl aldehyde on the core matrix of MAP to form a stable conditions so that unprotected peptides can be used as building blocks. A weak base such as benzoyl hydrazine or 1,2-amino thiol of cysteine was
- hydrazone linkage or a five-membered thiazolidine ring, respectively. Two synthetic peptides rich in basic amino acids such as lysine and arginine were used as models in the ligation reactions in solution to give "**epeptide** ***dendrimers*** containing four or elight copies of peptide immunogens. The resulting macromolecules with the MW ranging from 5 to 16 kba were unambiguously characterized by laser-desorption mass spectrometry. Furthermore, we also optimized by laser-desorption specification reactions using elevated temperature and a water-miscible organic co-solvent to give a combination of rate enhancement about 10 fold. These optimizations allowed the ligation reactions to be completed in 14 h instead of 2-3 days. Our ligation approach also has the advantages of flexibility so that peptides can be attached through the amino or carboxyl terminus to the core matrix. The phenyl hydrazone linkage and the five-membered ring were found to be stable at physiological pH suital for immunization. Thus our results provide two practical and useful methods for the synthesis of macromolecular ***peptide***

 dendrimers for vaccines, artificial proteins and enzymes. pH suitable
- ANSWER 34 OF 34 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- 1994:431061 BIOSIS
- PREV199497444061
- Synthesis of Rao, Chang; Tam, ***peptide*** ***dendri am, James P. [Reprint author] ***dendrimer***
- AN DN TI Dep. Microbiology Immunology, Vanderbilt Univ., MCN A5119, Nashville, TN
- 6975-6976 Journal of the American Chemical Society, (1994) Vol. 116, No. 15, pp. 37232, USA
- CODEN: JACSAT. ISSN: 0002-7863
- English Article
- Entered STN: 11 Oct 1994
- Last Updated on STN: 11 Oct 1994
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FILE 'STNGUIDE' ENTERED AT 15:21:11 ON 09 MAR 2004

FILE 'HOME' ENTERED AT 15:21:14 ON 09 MAR 2004

BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONZSCI, CROPB, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGMONOG2, ...' ENTERED AT 15:21:26 ON 09 MAR 2004 INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI

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FILE 'CAPLUS, BIOSIS, MEDLINE, LIPESCI' ENTERED AT 15:25:33 ON 09 MAR 2004 223 S (PEPTIDE OR POLYPEPTIDE) (10A) (DENDRIMER?) 155 DUP REM L3 (68 DUPLICATES REMOVED)

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FILE 'HOME' ENTERED AT 15:26:43 ON 09 MAR 2004

FILE 'CAPLUS, BIOSIS, MEDLINE' ENTERED AT 15:27:54 ON 09 MAR 2004
55 S L4 AND ED-L19990723
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FILE 'HOME' ENTERED AT 15:30:43 ON 09 MAR 2004

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34 S (PEPTIDE OR POLYPEPTIDE) (2A) DENDRIMER?

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